



IFWO

## RAW SEQUENCE LISTING

DATE: 08/20/2004

PATENT APPLICATION: US/10/696,019A

TIME: 11:53:45

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\08202004\J696019A.raw

3 <110> APPLICANT: Alleman, Arthur  
 4 Barbet, Anthony  
 6 <120> TITLE OF INVENTION: Polynucleotides and Polypeptides of Anaplasma  
 Phagocytophilum And Methods  
 7 of Using the Same

9 &lt;130&gt; FILE REFERENCE: UF-387

C--&gt; 11 &lt;140&gt; CURRENT APPLICATION NUMBER: US/10/696,019A

C--&gt; 11 &lt;141&gt; CURRENT FILING DATE: 2003-10-28

11 &lt;160&gt; NUMBER OF SEQ ID NOS: 4

13 &lt;170&gt; SOFTWARE: PatentIn version 3.2

15 &lt;210&gt; SEQ ID NO: 1

16 &lt;211&gt; LENGTH: 742

17 &lt;212&gt; TYPE: DNA

18 &lt;213&gt; ORGANISM: Anaplasma phagocytophilum

21 &lt;220&gt; FEATURE:

22 &lt;221&gt; NAME/KEY: misc\_feature

23 &lt;222&gt; LOCATION: (29)..(250)

24 &lt;223&gt; OTHER INFORMATION: Coding sequence of processed MSP5 polypeptide

26 &lt;220&gt; FEATURE:

27 &lt;221&gt; NAME/KEY: misc\_feature

28 &lt;222&gt; LOCATION: (29)..(610)

29 &lt;223&gt; OTHER INFORMATION: 5' and 3' ends of cloned MSP5 insert

31 &lt;400&gt; SEQUENCE: 1

32	aaataaggag	gaataaacca	tggcccttac	tgtgtttctg	gggtattcgt	atgttaacaa	60
34	aaaggaata	ttcagtgaca	tgggtgctaa	attaagtagt	actgacactg	tggttgaaca	120
36	agcgccgata	ttggcttctt	ttactgatct	gataaatcaa	gaaggtcagg	ttgttagtag	180
38	cactgatttt	gctgggaagc	acatgttgct	tatgttcggc	ttttcttcat	gcaagcacat	240
40	atgtcctgcg	gaacttggtg	tggtatcgca	acttttaaac	aagttgggtg	agactgctga	300
42	taaacttcaa	gctgttttca	taactattga	tcccaaaaat	gacactgttg	aaagggttaa	360
44	tgagtatcac	aaagcctttg	atagtcgaat	tcagatgctg	actggggatg	aggaagttat	420
46	tcgcaatgta	gtgaataatt	ataaggata	cgtaggtgag	tctgatagtg	aaggagatat	480
48	taatcactca	tcgtttttgt	acttggttga	tgccgacgga	agatatgtag	ggcattttgc	540
50	tcctgatttt	gatgaatacg	aaagtcaagt	aggtagactt	tttgatttcg	ttaataagta	600
52	ccctacttct	aagggcgaat	tcgaagctta	cgtagaacaa	aaactcatct	cagaagagga	660
54	tctgaatagc	gccgtcgacc	atcatcatca	tcattcattga	gtttaaacgg	tctccagctt	720
56	ggctgttttg	gcggatgaga	ga				742

59 &lt;210&gt; SEQ ID NO: 2

60 &lt;211&gt; LENGTH: 74

61 &lt;212&gt; TYPE: PRT

62 &lt;213&gt; ORGANISM: Anaplasma phagocytophilum

64 &lt;400&gt; SEQUENCE: 2

66 Thr Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser

67 1 5 10 15

70 Asp Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala

**ENTERED**

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71          20          25          30
74 Pro Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val
75          35          40          45
78 Val Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly
79          50          55          60
82 Phe Ser Ser Cys Lys His Ile Cys Pro Ala
83 65          70
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 89
88 <212> TYPE: PRT
89 <213> ORGANISM: Anaplasma phagocytophilum
91 <400> SEQUENCE: 3
93 Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Val Ala Thr
94 1          5          10          15
97 Val Phe Leu Gly Tyr Ser Tyr Val Asn Lys Lys Gly Ile Phe Ser Asp
98          20          25          30
101 Met Gly Ala Lys Leu Ser Ser Thr Asp Thr Val Val Glu Gln Ala Pro
102          35          40          45
105 Ile Leu Ala Ser Phe Thr Asp Leu Ile Asn Gln Glu Gly Gln Val Val
106          50          55          60
109 Ser Ser Thr Asp Phe Ala Gly Lys His Met Leu Leu Met Phe Gly Phe
110 65          70          75          80
113 Ser Ser Cys Lys His Ile Cys Pro Ala
114          85
117 <210> SEQ ID NO: 4
118 <211> LENGTH: 15
119 <212> TYPE: PRT
120 <213> ORGANISM: Anaplasma phagocytophilum
123 <220> FEATURE:
124 <221> NAME/KEY: MISC_FEATURE
125 <222> LOCATION: (1)..(15)
126 <223> OTHER INFORMATION: MSP5 signal peptide
128 <400> SEQUENCE: 4
130 Met Lys Thr Phe Lys Thr Val Ser Asn Leu Leu Leu Leu Val Ala
131 1          5          10          15

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RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 08/20/2004  
PATENT APPLICATION: US/10/696,019A      TIME: 11:53:46

Input Set : A:\pto.lm.txt  
Output Set: N:\CRF4\08202004\J696019A.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 6

VERIFICATION SUMMARY

DATE: 08/20/2004

PATENT APPLICATION: US/10/696,019A

TIME: 11:53:46

Input Set : A:\pto.lm.txt

Output Set: N:\CRF4\08202004\J696019A.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date